

INSTALLATION AND USER'S MANUAL

OPENCOCKPITS ADF B-737

DESCRIPTION OF THE MODULE

The module duplicates an ADF radio of the Boeing B-737, it is manufactured in two versions, amber digits and white digits, and the different components are as follows:



1. Active frequency display :
 - It shows the active frequency in the simulator.
2. Standby frequency display :
 - It shows the frequency that is in standby which we have previously selected by means of knobs 3 and 4.
3. Inner tuning knob:
 - To be used to tune the first three digits of the frequency (the format of the frequency would be OOO.I, O = Outer knob, I = Inner knob)
4. Outer tuning knob:
 - To be used to tune the fourth digit and the decimals (see format in the preceding description)
5. ADF/ANT indication:
 - Though the simulator does not contemplate these modes, they are implemented just in case their use would be possible in the future.
6. Transfer button:
 - It changes the active frequency for the standby one and vice versa.
7. ADF/ANT switch:
 - It changes between the ADF and ANT reception modes (not operative).
8. TONE switch:
 - If it is in ON, it allows to hear the Morse identification tone of the tuned NDB.

HARDWARE INSTALLATION

Just connect the module to the USB port with the furnished cable.

Configuration of the IOCMModules.ini file:

Initial Values

To disable any module, because it is not available or you want to disable an existing one, insert “//” at the beginning of the corresponding line of the initial values. This is handy when for instance, there is only one module available and the rest of the radios are used with the panels of the simulator and the mouse, because if it is not disabled the IOCMModules will not allow to change the frequency and will always show 108.00 in the window.

[Valores iniciales]

[Initial values]

set_com1=118000

set_com2=118000

set_nav1=10800

set_nav2=10800

set_adf1=1000

set_adf2=1000

set_atc=1200

Activation of the radios

In this next parameter of the file, what we do is to activate or not the modules. Together with the Initial Values, it will allow us to use or not the simulator's own panels. As said before, it is handy when using only some modules jointly with the simulator.

For that, we must change the parameter Yes for No, or vice versa:

[Activacion de Radios]

[Radio Activation]

active_com1=Yes

active_com2=Yes

active_nav1=Yes

active_nav2=Yes

active_adf1=Yes

active_adf2=Yes

active_atc=Yes

COM & NAV modules order

If we indicate NO in the next parameter what we get is to switch module #1 for module #2, this is useful if we already have the modules in place and want to switch the position without physically touching them, i.e. if we have module NAV1 in the right side of the pedestal, to convert it in NAV2 it will suffice to change the line for this one:

FIRST_DEVICE_NAV1=No

[Orden para COM y NAV]

[COM & NAV modules order]

[Change to NO for device number minor assigned to COM2 or NAV2, if YES, minor device number is COM1 or NAV1]

FIRST_DEVICE_COM1=Yes

FIRST_DEVICE_NAV1=Yes

Brightness

The parameter allows establishing the brightness of the displays, and let it fixed every time the module is used.

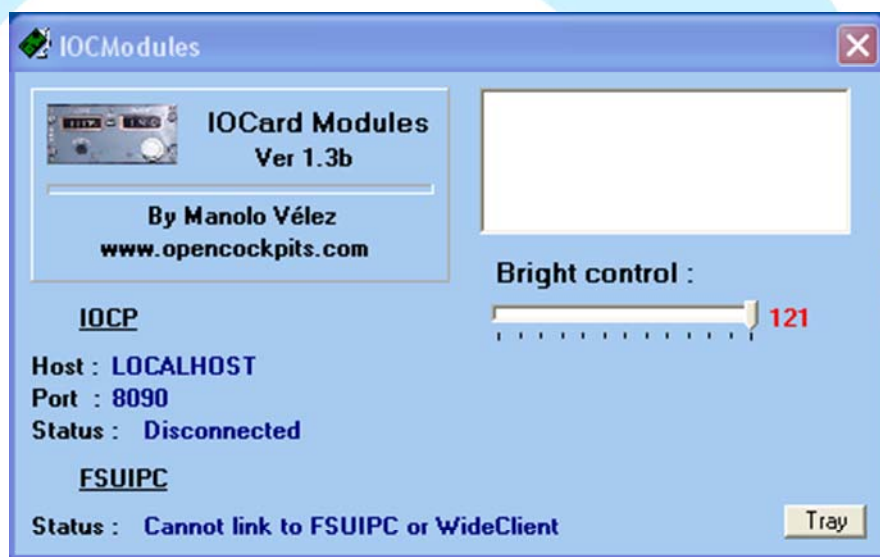
[Brillo por defecto 1-121]

[Bright 1-121]

bright=121

Being 121 the higher value and 1 the lowest.

Once the parameters of IOCMModules.ini configured, we can now execute IOCMModules.exe. This will turn on the digits and at the same time connect to the simulator, allowing to use the modules directly. The following dialogue box will appear:



The brightness control of the digits can be seen (Bright control). Sliding the control to the right, the brightness will increase, and it will decrease to the left.

Likewise the upper window will show the modules we have connected and active (the image shows no module being active) and also if the simulator and the IOCP server are connected or active.

Finally, we can minimize and send the program to the task bar clicking the Tray button.

USING SIOC WITH THE MODULES:

Actually it is possible to accede to the programming of the modules by means of our SIOC programming language, for that purpose the 3.7 version includes the definition of the variables of each module, se we can program the module to our liking.

Albeit technically the programming of the module under IOCMModules is correct, with this SIOC option details like controlling the brightness with the hardware, or maybe the COLD&DARK option, etc..., can be added.

TECHNICAL SPECIFICATIONS:

- Plug&Play.
- Fed through the USB port.
- Fully backlit, including TFR button and side lettering.
- Brightness of the digits controlled by software.
- Great precision concentric dual encoder.
- Compatible with other manufacturer's modules.
- No additional module needed.
- Size: 145x65 mm.

Note:

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